

Attachment J-C20.5

PM of Underground Domestic Water Valves- Zone A

(Pre-Priced Task)

General

This document is intended to set forth a preventative maintenance plan for underground domestic water valves at NASA GRC Lewis Field. This document shall be a guide for valve maintenance exercises performed by the contractor.

During valve maintenance the associated hydrants shall be opened to allow flushing of sediments. The water flushed from the hydrant shall be dechlorinated and discharged to the storm sewer. Contractor shall utilize underground domestic water drawings and the valve PM spreadsheet to determine which hydrant should be used for each valve.

NASA estimates 180 valves to be exercised and 58 hydrants to be opened. See below image for Zone A boundaries.

Procedures

Valve exercising procedures adapted from AWWA M44 shall be as follows:

1. Remove any sediment from valve box.
2. Begin slowly closing valve with minimal torque. Use of torque extension arm shall be prohibited.
3. Move through 5 to 10 rotations then reverse for two to three rotations. Repeat this process until valve is fully closed.
4. Open valve a few turns to flush sediment.
5. Fully close valve again.
6. Return valve to initial position.

Inspection & Reporting

During valve maintenance procedures contractor shall inspect for signs of valve failure and misalignment of valve box. Contractor shall generate a detailed report of deficiencies and provide to the COR.

Reference Drawings

Note: Domestic water distribution drawings shall be provided upon awarding of contract.

- DOMW-00186531-M-101_CE_01
- DOMW-00186532-M-101_CE_01
- DOMW-00186533-M-101_CE_01

